1. A pyrrolopyrimidine derivative represented by the following formula [I]:

$$R^{2}$$
 N
 R^{3}
 R^{3}
 R^{2}

(wherein R^1 is C_{1-9} alkyl, C_{2-9} alkenyl, C_{3-7} cycloalkyl, C_{3-7} cycloalkyl- C_{1-9} alkyl, di(C_{1-6} alkoxy)- C_{1-9} alkyl, hydroxy- C_{1-9} alkyl, cyano- C_{1-9} alkyl, carbamoyl- C_{1-9} alkyl, di(C_{1-6} alkyl)amino- C_{1-9} alkyl, aryl, heteroaryl, aryl- C_{1-9} alkyl or heteroaryl- C_{1-9} alkyl, in which said aryl and heteroaryl are optionally substituted with one to three substituents independently selected from the group consisting of C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfonyl, aminosulfonyl, mono(C_{1-6} alkyl)aminosulfonyl, di(C_{1-6} alkyl)aminosulfonyl, halogen, C_{1-6} haloalkyl, cyano, nitro, -NR 1a R 1b , where R 1a and R 1b are each independently selected from the group consisting of hydrogen, C_{1-6} alkyl and C_{1-6} alkylcarbonyl;

R² is C₁₋₆alkyl or C₁₋₆haloalkyl;

 R^3 is hydrogen, C_{1-6} alkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{3-7} cycloalkyl, C_{3-7} cycloalkyl- C_{1-6} alkyl, benzyl;

the bond between X and Y is a single bond or a double bond;

wherein (1) when the bond between X and Y is a single bond, X is CR^4R^5 or C=O; Y is CR^6R^7 , C=O, C=N-OR⁸ or C=CH-R⁹; (2) when the bond between X and Y is a double bond, X is CR^{10} ; Y is CR^{11} ;

 R^4 and R^5 are the same or different, and independently are hydrogen or C_{1-6} alkyl;

R⁶ and R⁷ are the same or different, and independently are hydrogen, C₁.

6alkyl, C₃₋₆cycloalkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, hydroxy, C₁₋₆alkylamino, di(C₁.

6alkyl)amino, di(C₁₋₆alkyl)amino-C₁₋₆alkyl, C₁₋₆alkylcarbonylamino, C₃₋₆cycloalkylcarbonylamino, arylcarbonylamino, heteroarylcarbonylamino, C₁₋₆alkylaminocarbonyl or C₁₋₆alkylaminocarbonylamino; or R⁶ and R⁷ are taken together to form C₃₋₆cycloalkyl, with the proviso that not both of CR⁴R⁵ and CR⁶R⁷

are CH₂;

R⁸ is hydrogen or C₁₋₆alkyl;

R⁹ is C₁₋₆alkyl, C₃₋₆cycloalkyl, aryl or heteroaryl, wherein said aryl and heteroaryl are optionally substituted with one to three substituents independently selected from the group consisting of halogen or C₁₋₆alkyl;

R¹⁰ is hydrogen or C₁₋₆alkyl;

R¹¹ is hydrogen, C₁₋₆alkyl or di(C₁₋₆alkyl)amino-C₁₋₆alkyl;

Ar is aryl or heteroaryl which aryl or heteroaryl is unsubstituted or substituted with 1 or more substituents, which are the same or different, selected from the group consisting of halogen, C₁₋₆alkyl, C₃₋₇cycloalkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, C₁₋₆alkoxy, C₁₋₆alkylthio, C₁₋₆alkylsulfonyl, aminosulfonyl, mono(C₁₋₆alkyl)aminosulfonyl, di(C₁₋₆alkyl)aminosulfonyl, cyano, C₁₋₆haloalkyl, trifluoromethoxy, difluoromethoxy, fluoromethoxy and -N(R¹²)R¹³, wherein R¹² and R¹³ are the same or different, and independently are hydrogen or C₁₋₆alkyl), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

2. The pyrrolopyrimidine derivative according to claim 1 represented by the following formula [II]:

$$R^{10} \qquad R^{1} \qquad R^{$$

(wherein R^1 is C_{1-9} alkyl, C_{2-9} alkenyl, C_{3-7} cycloalkyl, C_{3-7} cycloalkyl- C_{1-9} alkyl, di(C_{1-6} alkoxy)- C_{1-9} alkyl, hydroxy- C_{1-9} alkyl, cyano- C_{1-9} alkyl, carbamoyl- C_{1-9} alkyl, di(C_{1-6} alkyl)amino- C_{1-9} alkyl, aryl, heteroaryl, aryl- C_{1-9} alkyl or heteroaryl- C_{1-9} alkyl, in which said aryl and heteroaryl optionally substituted with one to three substituents independently selected from the group consisting of C_{1-6} alkyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfonyl, aminosulfonyl, mono(C_{1-6} alkyl)aminosulfonyl, di(C_{1-6} alkyl)aminosulfonyl, halogen, C_{1-6} haloalkyl, cyano, nitro, -NR 1a R 1b , where R 1a and R 1b are each independently selected from the group consisting of hydrogen, C_{1-6}

6alkyl and C₁₋₆alkylcarbonyl;

 R^2 is C_{1-6} alkyl or C_{1-6} haloalkyl;

R³ is hydrogen, C₁₋₆alkyl, C₂₋₆alkenyl, C₂₋₆alkynyl, C₃₋₇cycloalkyl, C₃₋₇cycloalkyl, C₃₋₇cycloalkyl, benzyl;

 R^{10} is hydrogen or C_{1-6} alkyl;

R¹¹ is hydrogen, C₁₋₆alkyl or di(C₁₋₆alkyl)amino-C₁₋₆alkyl;

Ar is aryl or heteroaryl which aryl or heteroaryl is unsubstituted or substituted with 1 or more substituents, which are the same or different, selected from the group consisting of halogen, C_{1-6} alkyl, C_{3-7} cycloalkyl, C_{2-6} alkenyl, C_{2-6} alkynyl, C_{1-6} alkoxy, C_{1-6} alkylthio, C_{1-6} alkylsulfonyl, aminosulfonyl, mono(C_{1-6} alkyl)aminosulfonyl, di(C_{1-6} alkyl)aminosulfonyl, cyano, halo C_{1-6} alkyl, trifluoromethoxy, difluoromethoxy, fluoromethoxy and $-N(R^{12})R^{13}$, wherein R^{12} and R^{13} are the same or different, and independently are hydrogen or C_{1-6} alkyl), individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

- 3. The pyrrolopyrimidine derivative according to claim 2 represented by the formula [II], wherein R^1 is $C_{1.9}$ alkyl, $C_{3.7}$ cycloalkyl, $C_{3.7}$ cycloalkyl- $C_{1.6}$ alkyl, di($C_{3.7}$ cycloalkyl)- $C_{1.6}$ alkyl, $C_{1.6}$ alkoxy- $C_{1.6}$ alkyl, di($C_{1.6}$ alkoxy)- $C_{1.6}$ alkyl, hydroxy- $C_{1.6}$ alkyl, cyano- $C_{1.6}$ alkyl, carbamoyl- $C_{1.6}$ alkyl, di($C_{1.6}$ alkyl)amino- $C_{1.6}$ alkyl, aryl- $C_{1.6}$ alkyl or heteroaryl- $C_{1.6}$ alkyl; R^2 is $C_{1.6}$ alkyl; R^3 is hydrogen or $C_{1.6}$ alkyl; R^{10} is hydrogen or $C_{1.6}$ alkyl; R^{11} is hydrogen, $C_{1.6}$ alkyl or di($C_{1.6}$ alkyl)amino- $C_{1.6}$ alkyl; Ar is aryl or heteroaryl which aryl or heteroaryl is unsubstituted or substituted with one to three substituents, which are the same or different, selected from the group consisting of halogen, $C_{1.6}$ alkyl, $C_{3.7}$ cycloalkyl, $C_{2.6}$ alkenyl, $C_{2.6}$ alkynyl, $C_{1.6}$ alkoxy, $C_{1.6}$ alkylthio, cyano, trifluoromethyl, trifluoromethoxy, difluoromethoxy, fluoromethoxy and -N(R^{12}) R^{13} , wherein R^{12} and R^{13} are the same or different, and independently are hydrogen or $C_{1.6}$ alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.
- 4. The pyrrolopyrimidine derivative according to claim 2 represented by the formula [II], wherein R¹ is C₁₋₉alkyl, C₃₋₇cycloalkyl, C₃₋₇cycloalkyl-C₁₋₆alkyl, di(C₃₋₇cycloalkyl)-C₁₋₆alkyl, C₁₋₆alkyl, di(C₁₋₆alkoxy)-C₁₋₆alkyl or aryl-C₁₋₆alkyl; R² is C₁₋₆alkyl; R³ is hydrogen or C₁₋₆alkyl; R¹⁰ is hydrogen or C₁₋₆alkyl; R¹¹

is hydrogen or C_{1-6} alkyl; Ar is phenyl which phenyl is unsubstituted or substituted with one to three substituents, which are the same or different, selected from the group consisting of halogen, C_{1-3} alkyl, C_{1-3} alkoxy, C_{1-3} alkylthio, trifluoromethyl and $-N(R^{12})R^{13}$, wherein R^{12} and R^{13} are the same or different, and independently are hydrogen or C_{1-3} alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.

- 5. The pyrrolopyrimidine derivative according to claim 2 represented by the formula [II], wherein R¹ is C₁-9alkyl, C₃-7cycloalkyl, C₃-7cycloalkyl-C₁-6alkyl, di(C₃-7cycloalkyl)-C₁-6alkyl, C₁-6alkoxy-C₁-6alkyl, di(C₁-6alkoxy)-C₁-6alkyl or aryl-C₁-6alkyl; R² is C₁-₃alkyl; R³ is C₁-₃alkyl; R¹0 is hydrogen; R¹¹ is hydrogen; Ar is phenyl which phenyl is substituted with 2 or 3 substituents, which are the same or different, selected from the group consisting of halogen or C₁-₃alkyl, individual isomers thereof or racemic or non-racemic mixtures of isomers thereof, or pharmaceutically acceptable salts and hydrates thereof.
- 6. An antagonist for CRF receptors, comprising a pyrrolopyrimidine derivative, a pharmaceutically acceptable salt thereof or its hydrate according to any one of claims 1 to 5, as an active ingredient.
- 7. Use of a pyrrolopyrimidine derivative, a pharmaceutically acceptable salt thereof or its hydrate according to any one of claim 1 to 5, for the manufacture of an antagonist for CRF receptors.